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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,481	06/20/2003	Johannes Vlemmings	2604	6324
7590 06/23/2004				
STRIKER, STRIKER & STENBY		EXAMINER		
103 East Neck Road		MOHANDESI, IRAJ A		
Huntington, NY 11743				
		ART UNIT	PAPER NUMBER	
		2834		

DATE MAILED: 06/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/600,481

Applicant(s)

VLEMMINGS ET AL.

Examiner

Iraj A Mohandesi

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1- 15 is/are rejected.
- 7) ☒ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 06/20/2003.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5,7-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Koelner Manfred 0548732 A2 EU** patent in view of **Pyrhoenen US patent 6,184,606**.

Regarding claim 1, **Koelner'0548732** discloses an electrical machine comprising a stator(4) ,a rotor (5), rotor shaft (14), a sheet (2),a squirrel cage (8,9), connected to the rotor (5) ,the cage has short circuit ring (8) and secured with an annular reinforcements element (10).

Koelner'0548732 teaches all limitation of claim 1 except for the enforcement elements do not overlap adjacent ,outer surface of the short circuit rings.

Pyrhoenen'606 discloses a squirrel cage rotor having reinforcement elements (18' Fig. 1,) at both side of the rotor attached to the short circuit rings for the purpose of reinforcing the short circuit rings.

Therefor it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine **Ko Iner'732** rotor with reinforcement elements as taught by **Pyrho nen'606** for the above purpose.

Regarding claim 2-5,7-9,11-15 **Pyrhoenen'606** discloses a squirrel cage rotor ,wherein the outer surface of the reinforcement element and outer surface of the short circuit ring are flush with another and the reinforcement element are pressed in an axial direction and , (see Fig.1,2) and the circuit rings are made from copper (18,column 3,line 53) and the stack of sheets is supported with short circuit rings between the reinforcement elements (see Fig.1,2) and the reinforcement rings are welded, column 4 ,lines 20-22) and the elements "rings" are inherently pressed onto the rotor (see Fig.1,2).

Regarding claim 10,**Koelner'0548732** discloses an electrical machine having reinforcement elements overlies radially inwardly an inner circumferential surface of the short circuit rings (10 .Fig.2).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over combination **Koelner'0548732** , **Pyrhoenen'606** and further in view of **Bawin US patent 5,512,792**. combination **Koelner'732**, **Pyrhoenen'606** teaches all limitation of claimed invention except only at least one of the reinforcement elements is screwed.

Bawin'792, discloses an electrical machine with a stacked rotor having a reinforcement elements, which is screwed for the purpose of holding the short circuit ring to the rotor. Therefor it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify combination **Koelner'732**, **Pyrhoenen'606** rotor with reinforcement elements, which is screwed taught by **Bawin'792** for the above purpose.

Communication

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IM June 21, 2004



DANGLE
PRIMARY EXAMINER